Department of Defense
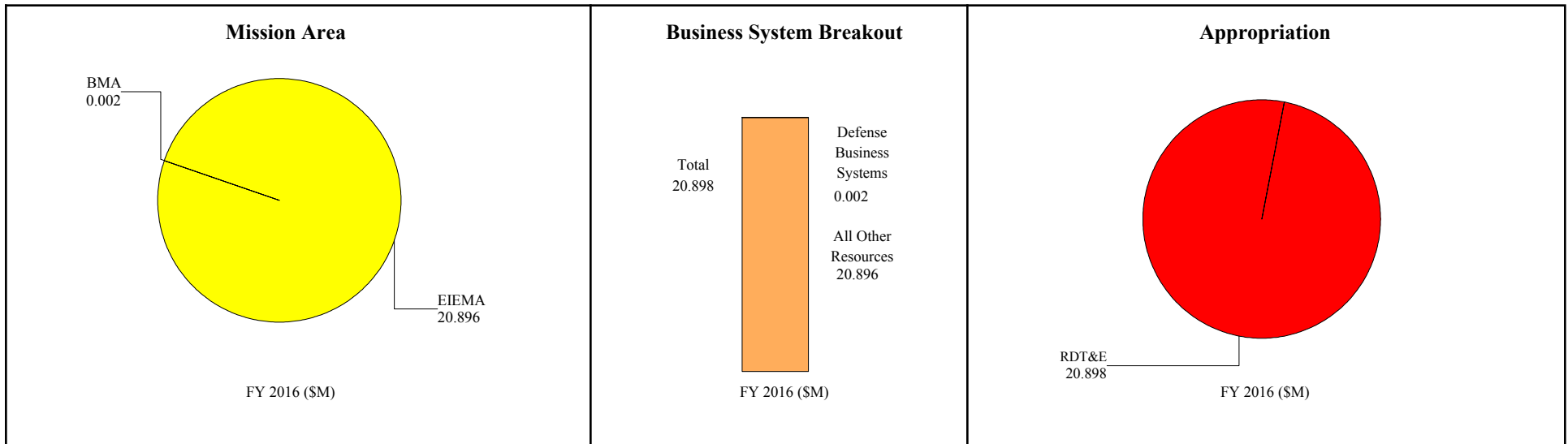## Fiscal Year (FY) 2016 President's Budget Request
Defense Technical Information Center Overview

Mission Area	Business System Breakout	Appropriation

Mission Area

BMA
0.002

EIEMA
20.896

FY 2016 ($M)

Business System Breakout

Total
20.898

Defense Business Systems
0.002

All Other Resources
20.896

FY 2016 ($M)

Appropriation

RDT&E
20.898

FY 2016 ($M)

FY15 to FY16 Comparison ($M)

	FY2015	Inflation	Program Change	FY2016
PB FY2016:	19.416	0.330	1.152	20.898

See Significant Changes section for explanation of Progam Change

FY15PB/FY16PB Comparison ($M)

	FY2015	FY2016	Delta
PB FY2015:	18.618	19.408	0.790
PB FY2016:	19.416	20.898	
Delta:	0.798	1.490	

See Significant Changes section for explanation

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Executive Summary

The Defense Technical Information Center (DTIC) facilitates the discovery, sharing, and transfer of scientific, technical and program information throughout the national defense community, Federal agencies, industry, and the public. DTIC also runs the Information Analysis Centers (IACs) that are instrumental in addressing critical research and acquisition requirements to meet national and defense urgent needs. The FY2016 President's budget on Research & Development states "Preserving and providing access to important and often irreplaceable collections should be a priority for agencies with an R&D portfolio." In accordance with DoD Directive 5105.73, DTIC is chartered to leverage and oversee the substantial investment of the Department of Defense (DoD) and Federal partners in research, development, test and evaluation (RDT&E) information through advanced knowledge management techniques and centralized information discovery, dissemination and collaboration systems. DTIC reduces information discovery costs and increases access to information for defense, federal, public and industry researchers, planners, and the warfighter while ensuring information security and user authentication. These efforts ultimately support DoD initiatives and increase the effectiveness of the DoD research, development and acquisition processes while implementing the U.S. National Action Plan on Open Government (dated 20 Sept 2011) and implementing the Presidents R&D FY2016 objectives by hosting scientific & technical information that is accessible to the widest audience possible including military, industry, educational institutions, other government agencies, and all citizens.

DTIC's networked systems contain metadata and full-text for over three million Science and Technology documents, to include: Technical Reports (TR) and ongoing research efforts, as well as tools to support information discovery and analysis. To improve the integration of DTIC's resources and provide a consistent user experience, in FY2014, DTIC replaced its legacy DTIC Online Access Controlled user interface with a revamped and fully integrated "Gateway Search interface" drastically reducing required server footprint from 10 (FAST) to two fully redundant servers. The interface provides unified navigation and single sign-on access to DTIC's sensitive but unclassified (SBU) resources. DTIC continues to implement the DoD CIO enterprise architecture, OMB guidelines, Federal CIO mandates on meeting Federal Data Center Consolidation Initiative (FDCCI), and the Joint Information Environment (JIE). The DTIC IT budget projection reflects migration, reduction, consolidation, and improvements in cost and performance efforts. By FY 2014. DTIC met and exceeded OMB guidelines on performance and data center efficiencies make DTIC one of the leanest IT operations in the DoD (in comparing similar organizations based on FDCCI reporting).

As part of the Better Buying Power initiatives, DTIC developed and hosts the Defense Innovation Marketplace (REDIM) service (www.defenseinnovationmarketplace.mil), for better communication between Industry and DoD. DoD uses the site to inform Industry about R&D goals, thrusts, issues, and opportunities. Industry inputs information on its Independent Research and Development (IR&D) efforts, both those that are paid by DoD under the IR&D program and those that industry does not receive pay-back for. A search system allows selected DoD Acquisitions personnel to perform analysis and discovery on this highly proprietary information. REDIM was instrumental in supporting the Pentagon's task of providing information to the Congress on Electromagnetic Spectrum management.

DTIC provides development and hosting for over one hundred Website applications that support DoD and other Federal partners and their component missions. DTIC managed programs and IT hosted services support the Federal Voter Assistance Program (FVAP), IT hosting for the Department of Energy (DOE), Commerce (DOC), and major DoD core services such as the Aircraft and Personnel Automated Clearance System (APACS) and Core Vulnerability Assessment Management Program (CVAMP), which collects vital vulnerability information for the Joint Staff, and the DoD Comptroller's R-2 Budget Exhibit system, which generates standardized budget exhibits from XML coded data produced from the Component's existing internal systems without requiring a change to their underlying structure.

DTIC hosts a popular and prominent Research & Engineering Gateway (R&EGateway) that connects scientists, engineers, researchers, and requirement sponsors with key research. Along with DoDTechipedia (launched 2008), R&EGateway improves collaboration and knowledge-sharing across the DoD and other Federal agencies on key research and acquisition programs. There is a SIPRNet version for the collaboration and sharing of classified topics and documents.

The DTIC managed Information Analysis Centers (IACs) respond directly to the Combatant Commands and Military Services, providing information and support in areas such as chemical and biological threat and defense, information assurance, sensors, and survivability and vulnerability. The results of their work are published as reports and placed online for Department reuse, in a system called Research & Engineering Gateway (REGateway), in both NIPR and SIPR versions.

In addition to supporting and enhancing the initiatives mentioned above, DTIC is continuously improving its system architecture to leverage proven collaboration and search technologies, new DoD-wide and Federal application initiatives and recent DoD and government-wide security initiatives. These new initiatives include continued implementation of the DoD Demilitarized Zone (DMZ) Architecture, Continuity of Operations (COOP) initiatives, and an increasing level of resource sharing among other Federal partners that help reduce costs at other agencies.

Significant Changes   (Explanations of Change by Appropriation Group. Dollars are in thousands unless otherwise noted.)

RDT&E

Horizontal Change   (Delta 1,152)
When comparing the FY 2016 position (FY16 PB) to the FY 2015 position (FY16 PB), the increase in DTIC's IT budget represents FY 2016 software license/contract requirements that are coming due as the period-of-performance (POP) of the current vehicle expires.

Vertical Change   (Delta 1,490)
When comparing the FY 2016 position (FY16 PB) to the FY 2016 position (FY15 PB), the increase in DTIC's IT budget represents new FY 2016 software license/contract requirements that were not fully vetted or finalized at the time the FY 2015 PB document was published.

Major Accomplishments

DTIC continued to develop, enhance and maintain information transfer products and services:
- Developed and implemented three components of the DoDTechipedia Suite of Services. These components include: a limited access wiki-based site designed to increase communication, collaboration and knowledge sharing among Federal S&T and acquisition community members; a classified wiki based site on the SIPRNet that facilitates discussion of capability gaps and technology needs in a more secure environment; and DefenseSolutions.gov, a protected portal that reaches out to non-traditional technology providers offering them a mechanism for directly submitting technology solutions in areas of interest to the DoD.

- Improved search capabilities for the DTIC Online Public user interface to support field specific searches for technical report metadata.
 - Replacing DTIC Online Access Controlled legacy search, with a unified user interface, for DTIC's sensitive but unclassified science and technology collections, including the collaboration site DoDTechSpace, with single sign-on, CAC enablement and additional search capabilities.

- Supporting 100+ DTIC and Component networked applications, databases, portals, intranets, extranets, and websites, including the following critical Federal and DoD applications: Director, Defense Research & Engineering (DDR&E) sites; Pacific Command (PACOM) site; Federal Voters Assistance Program (FVAP); DoD critical cybersecurity database: Core Vulnerability Assessment Management Program (CVAMP); DoD budget management systems: Comptroller R2 and DFAS; Aircraft and Personnel Automated Clearance System (APACS). Over a dozen sites, such as CVAMP and APACS, support the warfighter directly, and several map to Joint Capabilities Areas (JCAs). APACS is the central site for scheduling and coordinating global air transportation missions for all of the military services and DoD.

- Developed TechSpace as DTIC's gateway to DTIC Content, including Technical Reports, Total Electronic Migration System (TEMS) and DoDTechipedia.

- Enhanced existing products such as the DTIC Online Public User Interface with new features.

- Moving Defense Innovation Marketplace (REDIM) Search into production.

- Developing wiki applications to support the increasing need of the DoD Components for interactive collaboration tools and knowledge sharing.

- Expanding the R2 Budget Exhibits application to include all RDT&E budget exhibits.

DTIC integrated DoD CAC access with Lightweight Directory Access Protocol (LDAP) and SiteMinder to provide single sign-on access control to its sensitive but unclassified networked applications, databases, portals, intranets, extranets, and private and restricted websites, allowing more seamless access for its customers while affording better protection and administration of the data access. DTIC has deployed a Service Oriented Architecture (SOA) that allows external systems to search, post and retrieve documents directly from DTIC systems. DTIC worked with the Defense Information Systems Agency (DISA) to provide information on the Global Content Delivery System (GCDS), a world-wide, secure network for information dissemination.

DTIC has implemented the Defense Agencies Initiative (DAI), the Department's effort to extend its solution set for streamlining financial management capabilities, eliminating material weaknesses, and achieving financial statement auditability for the Agencies and Field Activities across the DoD.

DTIC responded rapidly to the ever changing information needs of our customers and served as a role model for providing fast access to information while maintaining appropriate information security.

Moved the classified SIPRNet email service to DISA's Enterprise Email (DEE) cloud service expecting a cost savings in FY2015.

DTIC has simplified user registration while strengthening user authentication by connecting to and leveraging the DMDC electronic directory services which is Federal HSPD-12 compliant. DTIC will be working to further extend HSPD-12 PIV and ECA credential authentication services through FY-14-FY18.

- Provided greater integration of DTIC's access controlled resources by implementing unified searching of over 800,000 technical report citations and numerous full-text documents from the DTIC Technical Reports Collection using a single search capability in the DTIC Online Access Controlled user interface.

Major Planned Activities

DTIC's Administrator is responsible for overall management of the center and ensures that resources are allocated to meet organizational goals.

DTIC's Configuration Control Board reviews major new initiatives for adherence to the organization's goals and monitors their execution. A major DTIC goal is to "make access to information easier while improving information security and integrity." To achieve this goal: DTIC will continue to develop, enhance and maintain information transfer products and services by:

- Maintaining and enhancing the DTIC Research and Development collections to ensure timely, secure and authoritative information for the national defense community.

- Including more technology intelligence information in its collections to meet researchers' needs for international science and technology information.

- Deploying a SIPRNet version of the DTIC Online Access Controlled user interface to include DTIC collections classified up to the Secret level.

- Continued development of the consolidated DoD budget application combining and enhancing budget searching and analysis capabilities now dispersed in multiple tools.

- Expanding the DoDTechipedia Suite of Services by providing and integrating additional, secure, collaboration tools for Community Building, locating colleagues and experts,and establishing Communities of Interest based on S&T topics.

- DTIC will continue to improve its Information Technology Architecture; and Information Assurance initiatives to support and protect DTIC products and services by:

-Building a master data base repository (MDR) that integrates all existing data to expand and facilitate search and discovery.

- Providing secure, reliable hosting services for more than 100 networked applications, databases, portals, intranets, extranets, and restricted websites supporting the DoD, Services, COCOMS. Components, and Federal partners.

- Expanding existing application features and architecture to support newly emerging customer requirements and Continuity of Operations (COOP) capabilities.

- Expanding DTIC's Service Oriented Architecture.

- Continuing to use existing tools (COTS, GOTS and Shareware) to improve operational effectiveness and security.

- Maintaining the Host Based Security Systems (HBSS) requirements in DTIC to help maintain a secure environment.

- Responding rapidly to Information Assurance (IA) alerts and new IA requirements and initiatives.

- Expanding budget exhibits to include procurement exhibits.

- DTIC will be moving its Internet Service Provider (ISP) connection to DITCO.

- Continue to provide support to the Federal Voters Assistance Program (FVAP).

- Implement and continue to move forward Search Semantic Capability.

- Integrating research in progress from the DoD Labs into the search interface for IR&D for the Defense Innovation Marketplace, so that users can simultaneously see research being done across industry and DoD.

- Replacing the legacy input system for documents, which was originally designed in 1992, to allow for input for documents from the 2013 OSTP requirement for Open Access for journal publications for DoD funded research. Input system will use APIs and SOAP, work with modern browsers, with separate unclassified and classified document processing. It will allow consolidated storage for all DTIC document collections and work in accordance to streamlined input procedures, providing more efficiency and cost savings, and allowing processing of more documents.

- Creating tools to implement the 2013 OSTP memo and OMB M-13-13 mandate for open and available research data, and collection of data management plans for each new DoD funded research effort, in-house, contractor or grant. Exploring the requirements for data repositories and machine readable standard data sets, as DoD moves towards using data as a managed asset. Provide mechanisms for measuring compliance as policy is implemented for DoD.

- Conducting major planning activities including application version, connections, protocols, and services inventories to prepare for future migration to cloud services.

Infrastructure Modernization/Joint Information Environment (JIE)

No implementation activities in this area.

Core Network Infrastructure

DTIC continues to integrate and migrate existing networked services, applications, databases, portals, extranets, intranets, and web services to leverage the PIV/HSPD-12 identity services and is planning in FY15 for the expansion into the federated electronic directory services (EDS) and global directory services (GDS) that affords expanded access to all federal and DoD partners. DTIC is required by DoD CIO mandate to begin expanding authenticated access to industry, academia, and the commercial sector with approved interoperable Federal Identity, Credential, and Access Management (FICAM). DTIC is also engaged with the Federal Voter Assistance Program (FVAP) facilitating the President's eGov initiatives and provisioning of authenticated remote voter absentee voting pilot programs.

Joint Regional Security Stack (JRSS)

No implementation activities in this area.

Data Center and Server Consolidation

DTIC implements the Federal Data Center Consolidation Initiative (FDCCI) beginning in FY 2010 and continuing through FY 2015. DTIC's enterprise architecture is in a good position to migrate to be a provider of some cloud services to current and prospective DoD and federal partners.

Cloud Computing

DTIC entered the Cloud space in FY2015 leveraging the DISA hosted MilCloud and a DISA sponsored pilot. Major move of public collections of data are slated for FY 2016.

Defense Business Systems

DTIC is not a Defense Business System.

Consolidation of Software Purchases

DTIC has no immediate or ongoing implementation activities in that area.

Consolidation of Hardware Purchases

DTIC has no immediate or ongoing implementation activities in that area.

Information Technology Budget Exhibit Resource Summary by Investment (IT-1)		

	----------- Dollars in Thousands -----------		
	FY2014	*FY2015*	*FY2016*
RESOURCE SUMMARY:	$23,741	$19,416	$20,898

007-000005024 - DEFENSE TECHNICAL INFORMATION CENTER (DTIC)   Non-Major

GIG Category: COMMUNICATIONS AND COMPUTING INFRASTRUCTURE

RDT&E   ----------- Dollars in Thousands -----------

Appropriation	*Budget Activity*	*Program Element*	*FY2014*	*FY2015*	*FY2016*
RDT&E, DW	BA 06 RDT&E MANAGEMENT SUPPORT	0605801KA DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	23,702	19,377	20,859
		Investment Resource Summary:	23,702	19,377	20,859

007-000006312 - DEFENSE TRAVEL SYSTEM (DTS)   Major

GIG Category: FUNCTIONAL AREA APPLICATIONS

RDT&E   ----------- Dollars in Thousands -----------

Appropriation	*Budget Activity*	*Program Element*	*FY2014*	*FY2015*	*FY2016*
RDT&E, DW	BA 06 RDT&E MANAGEMENT SUPPORT	0605801KA DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	2	2	2
		Investment Resource Summary:	2	2	2

007-000100118 - DoD Enterprise Email (DEE)   Major

GIG Category: COMMUNICATIONS AND COMPUTING INFRASTRUCTURE

RDT&E   ----------- Dollars in Thousands -----------

Appropriation	*Budget Activity*	*Program Element*	*FY2014*	*FY2015*	*FY2016*
RDT&E, DW	BA 06 RDT&E MANAGEMENT SUPPORT	0605801KA DEFENSE TECHNICAL INFORMATION CENTER (DTIC)	37	37	37
		Investment Resource Summary:	37	37	37